RT1P441X SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

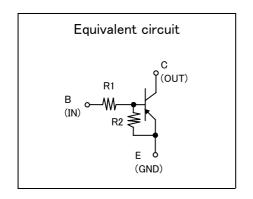
RT1P441X is a one chip transistor with built-in bias resistor, NPN type is RT1N441X.

FEATURE

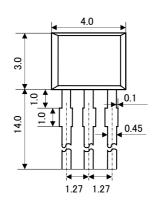
•Built-in bias resistor (R1=47k Ω ,R2=47k Ω).

APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.



RT1P441S





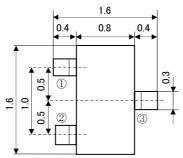
JEITA: -JEDEC: -

Terminal Connector

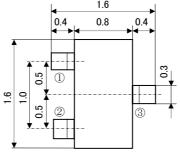
- 1: Emitter
- 2: Collector
- 3:Base

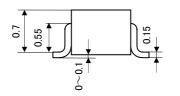
OUTLINE DRAWING

RT1P441C



RT1P441U



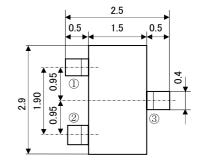


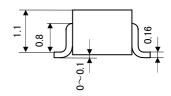
JEITA: -JEDEC: -

Terminal Connector

- ①:Base
- 2: Emitter 3: Collector

RT1P441M





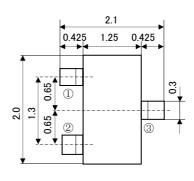
JEITA: SC-59

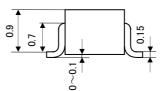
JEDEC: Similar to TO-236

Terminal Connector

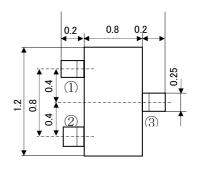
- ①:Base
- 2: Emitter
- 3: Collector

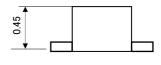
RT1P441T





JEITA: SC-70 JEDEC: -





JEITA: -JEDEC: -

Terminal Connector

- (1):Base
- 2: Emitter
- 3: Collector

RT1P441X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25°C)

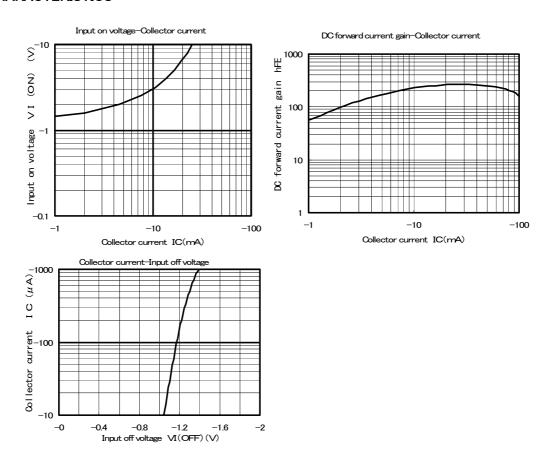
SYMBOL	PARAMETER	RATING					UNIT
		RT1P441T	RT1P441U	RT1P441M	RT1P441C	RT1P441S] UNIT
V _{CBO}	Collector to Base voltage	-50					V
V _{EBO}	Emitter to Base voltage	-10					V
V_{CEO}	Collector to Emitter voltage	-50					V
Ic	Collector current	-100					mA
I _{CM}	Peak Collector current	-200					mA
P _c	Collector dissipation(Ta=25°C)	125(※)	125	15	50	450	mW
Tj	Junction temperature	+125		+150			°C
Tstg	Storage temperature	−55 ~ +125		−55 ~ +150			°C

 (\center{x}) package mounted on 9mm imes 19mm imes 1mm glass-epoxy substrate.

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50			V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0			-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I _C =-5mA	50			_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$		-0.1	-0.3	٧
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V, I $_{C}$ =-5mA		-2.3	-5.0	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V, I $_{C}$ =-100 μ A	-0.8	-1.1		V
R ₁	Input resistance		33	47	61	kΩ
R ₂ /R ₁	Resistance ratio		0.9	1.0	1.1	
f⊤	Gain band width product	V_{CE} =-6V, I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS





Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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